Uniden®

HD8000UPVR

HIGH DEFINITION DIGITAL RECEIVER

Set Top Box with USB Record Capabilities

OWNER'S **MANUAL**

Safety First

Please review the following safety precautions. If this is your first time to use a digital receiver, then read this manual before installing or using this receiver. If the receiver is not functioning properly, please contact your local distributor or system installer.

	WARNING! RISK OF ELECTRICAL SHOCK DO NOT OPEN	
WARNING: TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE THE COVER NO USER-SERVICEABLE PARTS ARE INSIDE REFER SERVICING TO QUALIFIED PERSONNEL		

The lightening symbol in a triangle is used to alert you to the presence of dangerous voltages inside the receiver that may be sufficient to constitute a risk of electric shock to anyone opening the case. It is also used to indicate improper installation or handling of the receiver that could damage the electrical system in the receiver or in other equipment attached to the receiver.

The exclamation point in a triangle is used to alert you to important operating and maintenance instructions. Failure to follow these instructions could result in injury to you or damage to the receiver.

Be careful with electricity:

- **Power outlet:** To prevent electric shock, make sure the electrical plug used on the receiver's power cord matches the electrical outlet used to supply power to the receiver. Connect the power cord only to a power source that operates at 100~240 Volts AC, 50/60 Hz.
- **Power plug:** If a three-prong power plug is provided with the receiver, make sure it is used with a properly grounded three-wire power socket.
- **Power cord:** Make sure the power cord is routed so that it will not be stepped on or pinched by heavy items.
- **Power overloading:** Avoid overloading electrical outlets or extension cords, which otherwise could result in electric shock or fire.
- **Lightening:** For protection from lightening, or when the receiver is left unattended for a long period, disconnect it from the power source.
- **Protect other equipment:** Unplug the receiver before connecting any other equipment, especially the antenna. Connect all equipment to the receiver before plugging any power cords to the power source.

Also follow these precautions:

- **Ventilation:** Do not block the ventilation slots on the receiver, or place any heavy object on top of it. Blocking the airflow could damage the receiver. Arrange components so that air can flow freely around the receiver. Ensure that there is adequate ventilation if the receiver is placed in a stand. Put the receiver in a properly ventilated area, away from direct sunlight or any source of heat.
- **Overheating:** Avoid stacking the receiver on top of a hot component such as a power amplifier.
- **Risk of Fire:** Do not place the receiver on top of any easily combustible material, such as carpet or fabric.
- **Proper Connections:** Make sure all cables and equipment are connected to the receiver as described in this manual.
- **Object Entry:** To avoid electric shock, never stick anything in the slots on the case or remove the cover.
- **Water Exposure:** To reduce the risk of fire or electric shock, do not expose the receiver to rain or moisture.

- Plastic Protective Film: Receivers when shipped have a protective thin plastic film over the Front Panel; this plastic film should be removed and discarded.

- **Trademark Information**

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DVB and the DVB logo are registered trademarks of the DVB project.

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Introduction

The Uniden **HD8000UPVR** Set-Top-Box is an MPEG-4 compliant High Definition (HD) receiver, capable of receiving and recording high definition and standard definition (SD) TV programmes from free-to-air terrestrial broadcasts (DVB-T) in accordance with the FREEVIEW specification phase one.

The user friendly On-Screen-Display (OSD) allows you to setup your receiver to enjoy both high and standard definition channels with crystal clear picture and stereo sound quality.

Package Contents

Unpack the receiver and verify that all of the following items are included.

- HD8000UPVR High Definition MPEG-4 Terrestrial Receiver
- Remote Control Unit (with 2x AAA batteries)
- Owner's manual
- AC adapter
- Composite (RCA) Video/Audio Cable
- Component Video Cable

NOTE

If any items are missing or damaged, contact your place of purchase immediately.

Key Features

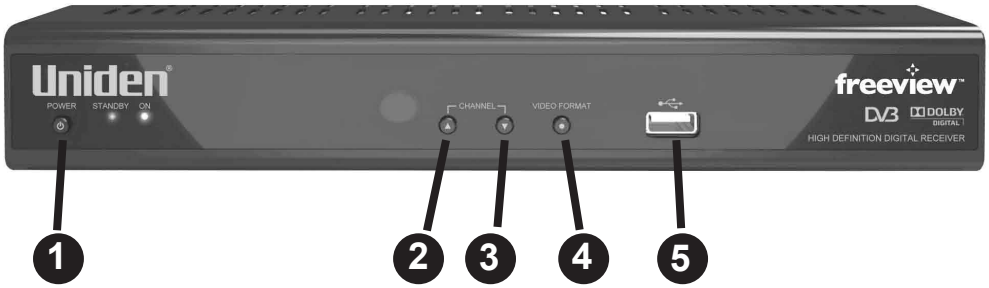
- **USB Record/Playback*:**
  Record or playback your favourite programs from an external USB Storage Drive (not included)
- **On Screen Display (OSD):**
  Easy to use Menu system displays key information on screen
- **Remote Control:**
  Fully functional Remote Control
- **Electronic Programme Guide (EPG):**
  8 days of programme guide support.
- **Record Scheduler:**
  Schedule up to 6 hours of recording
- **Video and audio connection capabilities:**
  HDMI, Component Video, Composite Video and Audio connections
- **Plug and Play setup:**
  Plug in a USB flash drive to view your favourite jpeg (jpg) photos
- **Simultaneous HD/SD output:**
  Connect HDMI to an HDTV for HD and at the same time connect composite
  or component to a standard TV for SD
- **DVB Compliant:**
  Decodes MPEG-2 and MPEG-4/AVC formats
- **Multiple Video Format Modes:**
  HD - 1080i/720p, SD - 576p/576i
- **Multiple Aspect Ratio Modes:**
  16:9, 4:3 Letter Box and 4:3 Centre Cut
  Includes Active Format Descriptor (AFD) modes;
  AFD 16:9 Wide, AFD 4:3 Letter Box and AFD 4:3 Centre Cut
- **Channel Locked Function**
  Parental Rating with PIN code access
- **USB 2.0 support for software upgrade**

NOTE

*** USB Record/Playback:**
In accordance with the Freeview specification the HD8000UPVR encrypts all content recorded to the USB Storage Drive. The recorded content can only be played back on the HD8000UPVR it was encrypted on. Therefore Uniden recommends connecting a dedicated storage drive to record and playback TV programmes.

Parts of the Uniden HD8000UPVR System

Front Panel



1. **Power button:**
   Toggles the HD8000UPVR between power-on (green LED) and standby (red LED) modes.

2. **Channel button:**
   Switch to the next channel.

3. **Channel button:**
   Switch to the previous channel.

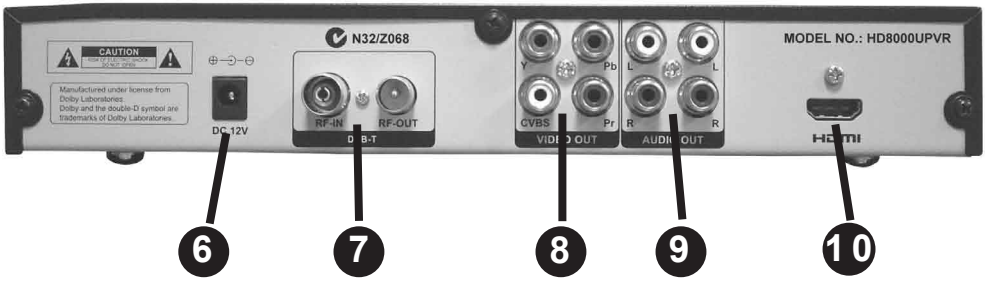
4. **Video Format button:**
   Toggles between the video format modes; 1080i, 720p, 576p and 576i.

5. **USB Port:**
   For connection of a USB Storage Drive (USB Flash Drive, USB single SD card reader or USB Hard Disk Drive).

NOTE

USB Storage Drive is not included.

Rear Panel



6. **Power Supply:**

   Power Adapter DC12V 1.5A input (100~240 VAC, 50~60 Hz).

7. **RF In/ RF Out:**

   RF Input for an external antenna/RF Out (loop through) for an external device.

8. **Video Out: Composite Video (CVBS) / Component Video (Y/PB/PR):**

   For High Definition ready HDTVs - Connect the Component Video cable to the red, blue and green coloured video jacks. Component Video Out can carry HD (1080i, 720p) and SD (576p, 576i) video.

   For Standard Definition Televisions - Connect the Composite Video cable to the yellow coloured video jack, or if available connect the Component Video cable to the red, blue and green coloured video jacks.

9. **Audio Out: L/R:**

   Two pairs are provided for use with either of the Composite Video and/or Component Video outputs.

10. **HDMI:**

    For connection to an HDTV which has HDMI input for optimum viewing capability. HDMI output supports 1080i, 720p, 576p and 576i video formats and supports Dolby down-mix 2 channel audio.

Remote Control

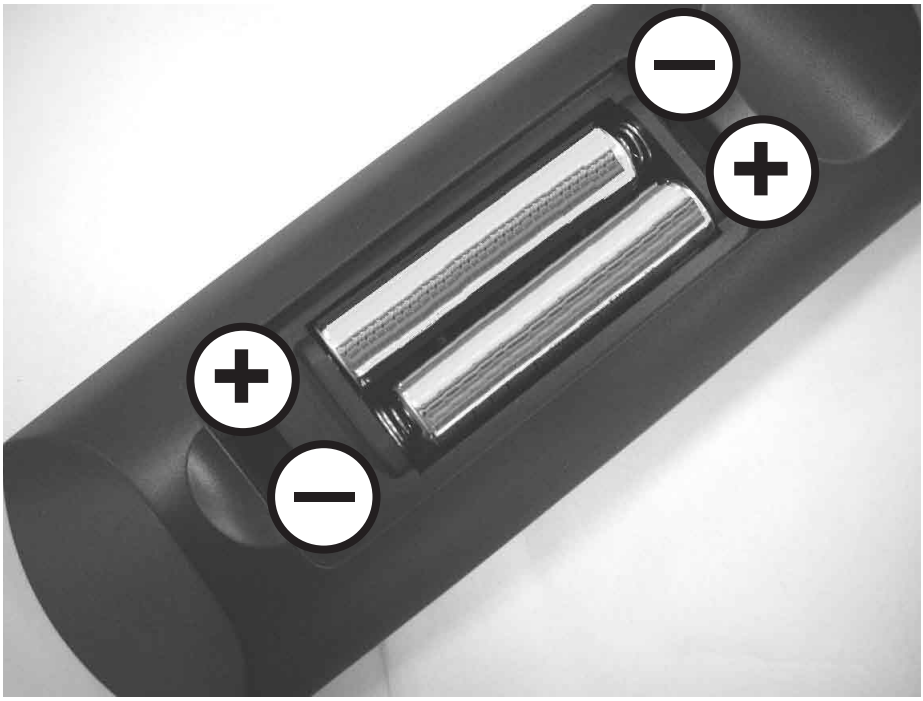
The remote control provides easy access to all of the receiver's functions, including selecting channels and using the menus. It uses infrared signals, and must be operated within seven meters from the receiver.

When using the remote control, make sure there is a direct line of sight to the receiver.

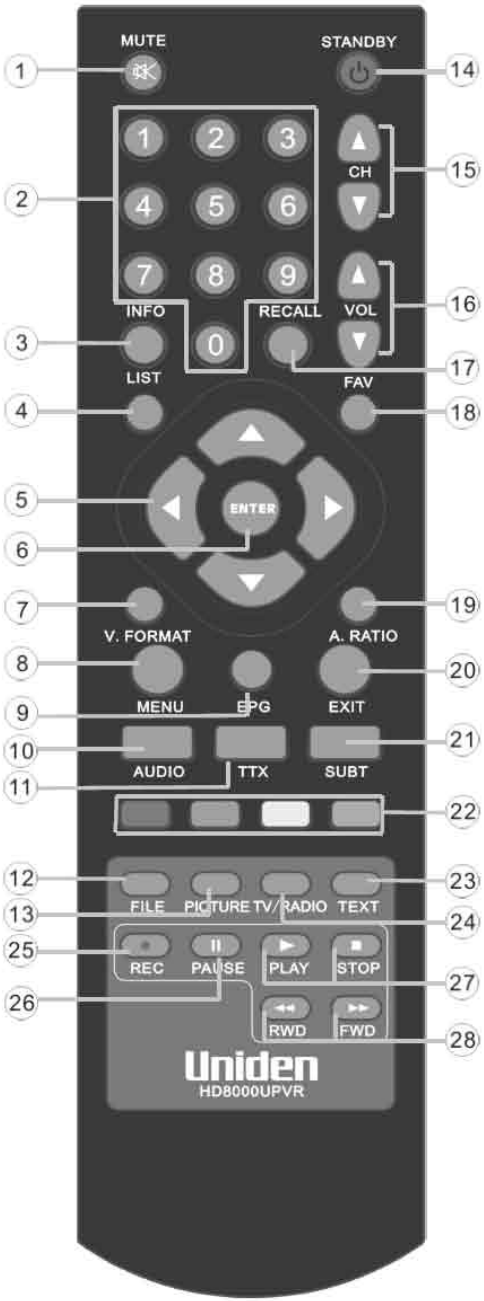
NOTE

Although the receiver can be operated from the buttons on the front panel, many of the receiver's functions can only be accessed using the remote control.

The batteries for the remote control are packaged separately; please install these batteries in the remote control before using the receiver. Note the "+" and "-" signs on the batteries to ensure that the batteries are inserted with the correct polarity into the remote control. To avoid damage to the remote control, discard any depleted or old batteries.



The buttons on the remote control have the following functions:

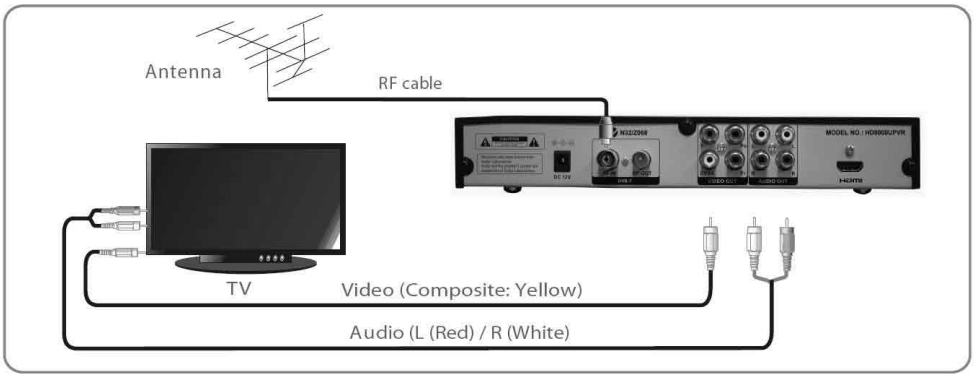


1. **MUTE:** Disable and enable MUTE
2. **Numeric:** For entering channel number or PIN code
3. **INFO:** Open I-PLATE/Now/Next Information
4. **LIST:** Open Channel List window
5. **Directional buttons:** Move the cursor or field in the ▲▼◄► direction
6. **ENTER:** Selects the highlighted item
7. **V.FORMAT:** Switch Video Format between PAL / 576P / 720P / 1080i
8. **MENU:** Open MAIN MENU window
9. **EPG:** Display the EPG (Electronic Programme Guide)
10. **AUDIO:** Switch languages or audio types if available (MPEG / AC3)
11. **TTX:** Switch Teletext OFF/ON
12. **FILE:** Open File menu to review contents of the USB storage drive.
13. **PICTURE:** Adjust picture setup (brightness, contrast, saturation, hue, sharpness and Digital Noise Reduction)
14. **STANDBY:** Switch the set top box OFF/ON
15. **CH:** Channel controls; previous and next
16. **VOL:** Audio volume; increase or decrease
17. **RECALL:** Toggle between current and previous channels
18. **FAV:** Open Favorite Channel List window
19. **A. RATIO:** Switch Aspect Ratio between 16:9 / AFD 16:9 Wide / 4:3 Letter Box / 4:3 Centre Cut/ AFD 4:3 Letter Box and AFD 4:3 Centre Cut
20. **EXIT:** To exit display mode (and watch TV)
21. **SUBT:** For DVB subtitle if available
22. **Colour buttons:** RED/GREEN/YELLOW/ BLUE - Perform various functions which are shown in the menu
23. **TEXT:** Enable MHEG5 function (Optional)
24. **TV/RADIO:** Change between TV and radio channels
25. **REC:** Start programme recording function
26. **PAUSE:** Pause the video in playback mode.
27. **PLAY/STOP:** Play or Stop the video in playback mode. Stop programme recording.
28. **RWD/FWD:** Execute Rewind and Forward in playback mode.

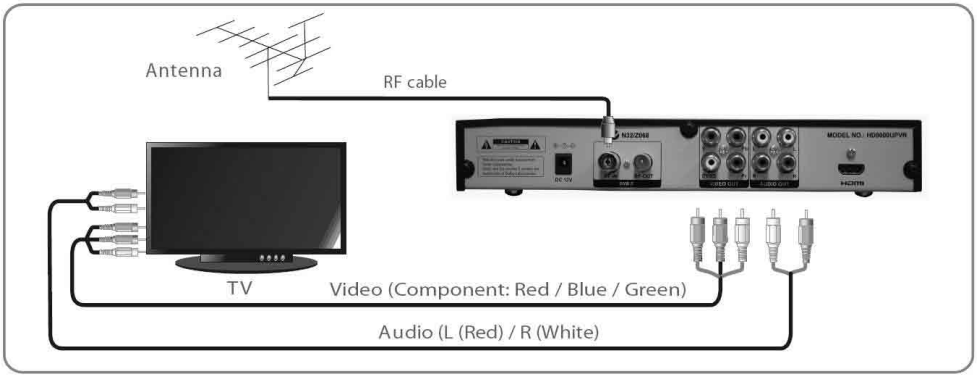
System Installation

Connecting to a Standard Definition TV

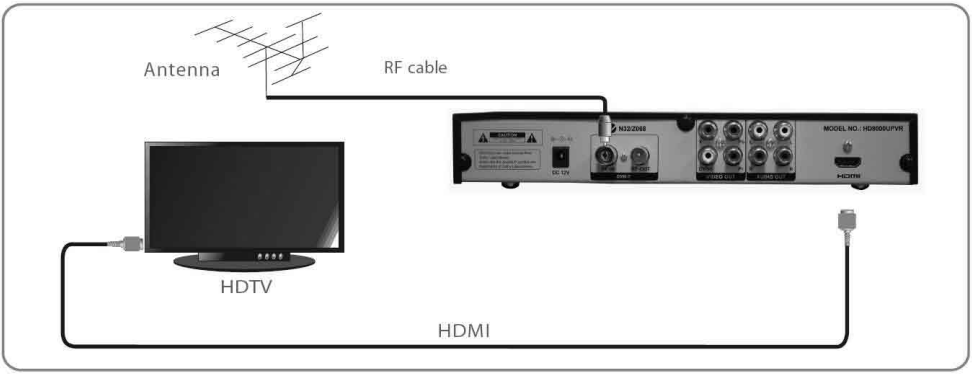
Composite Video Connection



Component Video Connection



Connecting to a High Definition TV



Aspect Ratio Setting

Digital TV broadcasts carry a mixture of widescreen (16:9) and standard (4:3) format programmes.

Under new guidelines; all new TV sets will have an ex-factory default setting which makes the set follow the broadcaster's transmitted picture format codes. The Active Format Descriptor (AFD) code will allow some view preferences to operate automatically, but only those which the broadcaster has catered for in making the programme. For example, it will allow a viewer to fill the screen of a 4:3 TV set with the centre portion of a widescreen picture, but only for programmes 'shot and protected' to allow for this, so that cutting off the edges won't lose important action in the scene.

Recommended Settings

The HD8000UPVR offers the following options through the **A.Ratio** (aspect ratio) button on the remote control:

16:9
AFD 16:9 Wide (factory default)
4:3 Letter Box
4:3 Centre Cut
AFD 4:3 Letter Box
AFD 4:3 Centre Cut

The view option **AFD 4:3 Letter Box** is interpreted as a best compromise for the various formats.

Recognising that viewers may not always be satisfied with the broadcaster's recommended display format or choice of formats, TV sets may also have a 'viewer preference' setting, in which the viewer's wishes override that of the broadcaster, the viewer will have to select these other modes deliberately.

Switching on for the First Time

Your HD8000UPVR needs to be tuned to channels in your region. When it is connected and switched on for the first time the HD8000UPVR will start in Quick Scan mode.

1. Turn on your TV set.

2. Turn on the HD8000UPVR by pressing the power key on the front panel or pressing **STANDBY** on the remote control. The green ON LED will light up.

3. The “Quick Scan” menu will appear. Use the ▲, ▼, ◄ or ► directional keys on the remote control to highlight your region and then press ENTER to automatically scan and place into memory all services transmitted in your region.

4. When the receiver states “Scan Complete” press EXIT.

Digital television programmes are then received.

Viewing Channels

Use the Channel keys or enter the channel number on the remote control to change channels.

The Information Plate (or I-Plate)

The I-Plate appears at the bottom of the screen whenever a channel is changed or when called up by pressing **INFO**. The I-Plate displays information about the channel and the current TV programme.
Press ► to view the next programme's information (Next).
Press ◄ to go back to the current programme's information (Now).

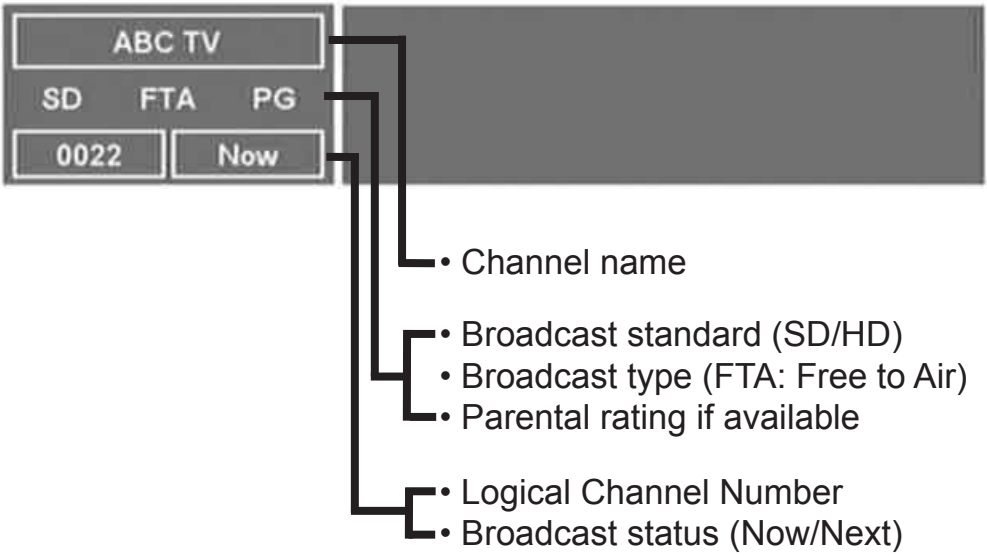
Example I-Plate

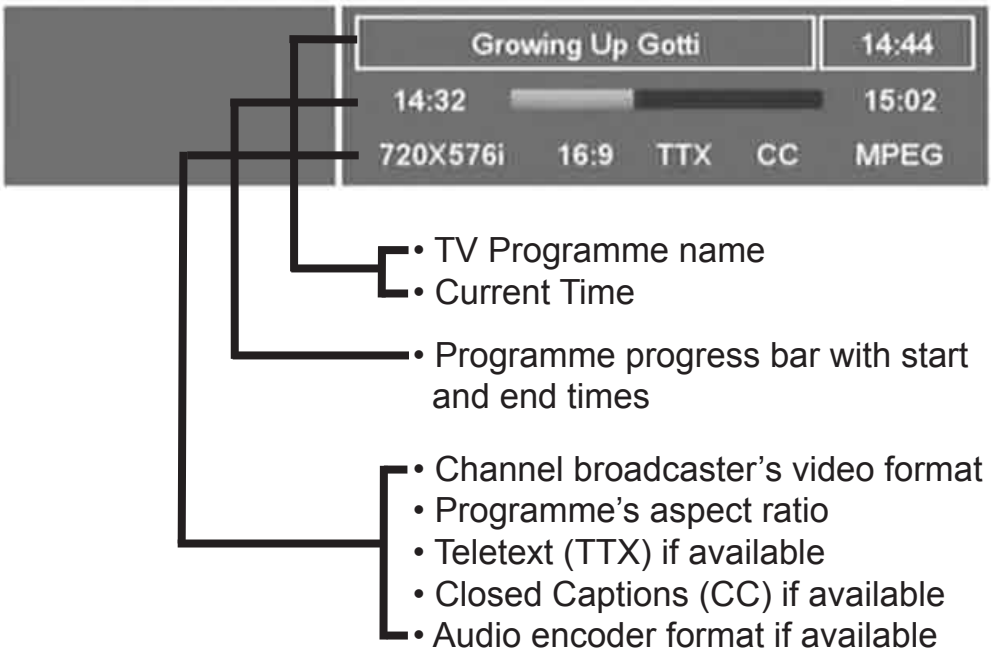
- The I-Plate automatically displays for a short period whenever a channel is changed. You can change the display time in Menu/Settings/On Screen Display on page 33.

- You can also press **INFO** to display the I-Plate.

- If the selected channel supports special features such as Teletext (TTX) or Closed Captions (CC), then this information will be displayed in the I-Plate.

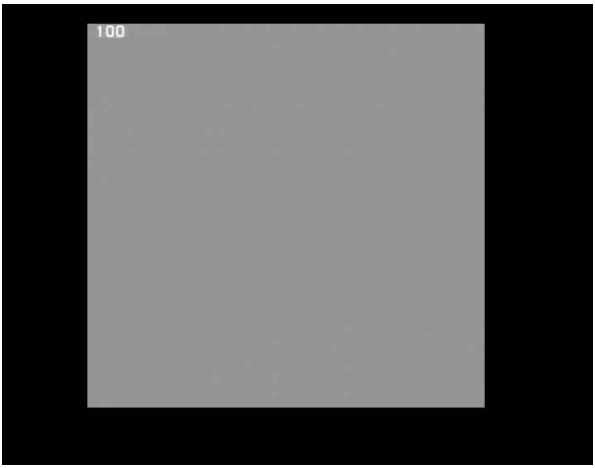
- Press **EPG** while the I-Plate is displayed to call up a synopsis of the programme.


ABC TV
SD FTA PG
0022 Now
• Channel name
• Broadcast standard (SD/HD)
• Broadcast type (FTA: Free to Air)
• Parental rating if available
• Logical Channel Number
• Broadcast status (Now/Next)


Growing Up Gotti
14:44
14:32
15:02
720X576i 16:9 TTX CC MPEG
• TV Programme name
• Current Time
• Programme progress bar with start and end times
• Channel broadcaster's video format
• Programme's aspect ratio
• Teletext (TTX) if available
• Closed Captions (CC) if available
• Audio encoder format if available

Viewing Teletext Subtitles

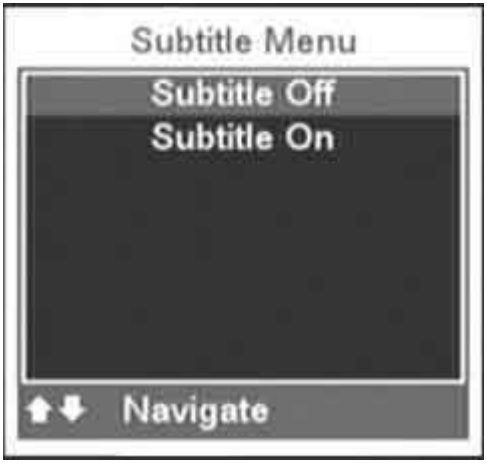
Some channels carry Teletext (TTX) and with it some programmes may have Teletext subtitles.



- Press **TTX** and enter 801 to view the Teletext subtitles page.
- To adjust the Teletext subtitles background, press **TTX**. Press **TTX** again to clear the Teletext screen.

Selecting Subtitle Tracks

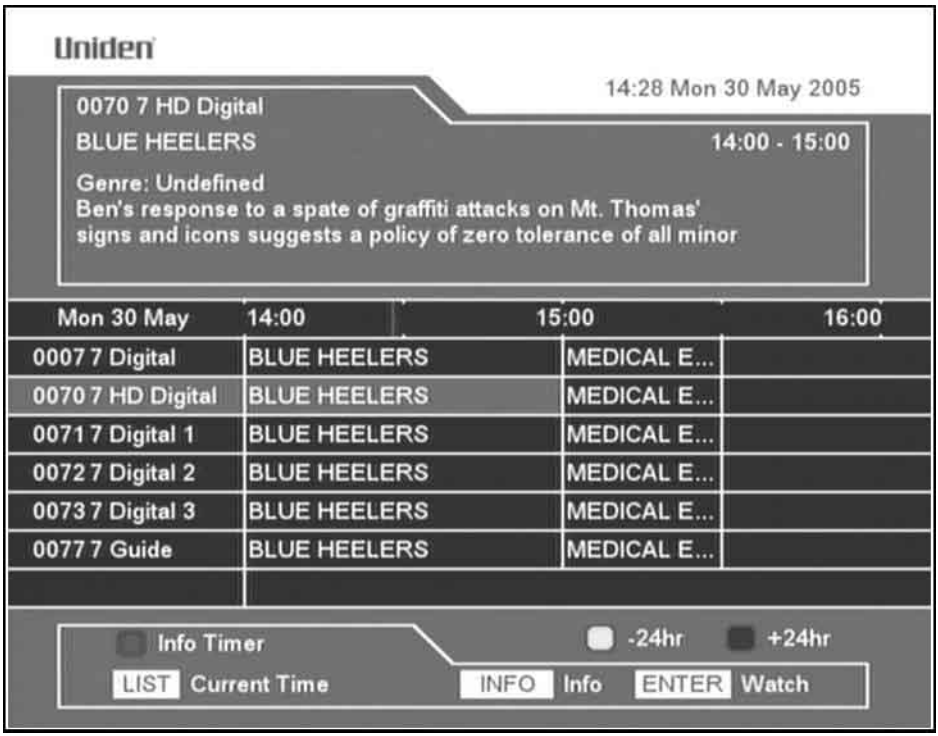
Some programmes are broadcast with subtitle tracks in one or more languages.



- Press **SUBT**, the subtitle menu will display on your screen. Once you select a subtitle track, the subtitle will be displayed.

EPG: Electronic Programme Guide

This HD8000UPVR comes with a native 8-day Electronic Programme Guide (EPG). Never miss your favourite TV programmes; simply select upcoming TV programmes and add them to the Record Schedule list. When the time is near the receiver will switch to the scheduled channel and start recording to the USB Storage Drive.



You can navigate (▲, ▼, ◄ and ►) to programme times throughout the EPG.

- **Red** Key: Press to add the selected programme to the Record Schedule list - See page 21.
- **Yellow** Key: Back 24 hours.
- **Blue** Key: Forward 24 hours.

Press **INFO** to view the selected programme's synopsis.
Press **LIST** to select the current channel and programme.

Recording TV Programmes

The HD8000UPVR can record television programmes onto a USB mass storage drive.

NOTE

The storage drive must be formatted before it can be used to store recorded content. For this reason Uniden recommends using a dedicated USB mass storage drive for recording and playback of TV programmes.

Format the USB Storage Drive

Press MENU then select “Format USB Storage Drive” from the “Channels” menu.

Enter the PIN code. The default PIN Code of the receiver is 0000.

NOTE

For long recording times a USB hard drive (instead of a USB flash drive) is recommended.

Caution:

- All the files saved in your USB Storage Drive will be erased when you do formatting.
- Do not disconnect the USB Storage Drive while formatting. It may cause damage to your USB Storage Drive.

Scheduled Recording

You can record in two ways;

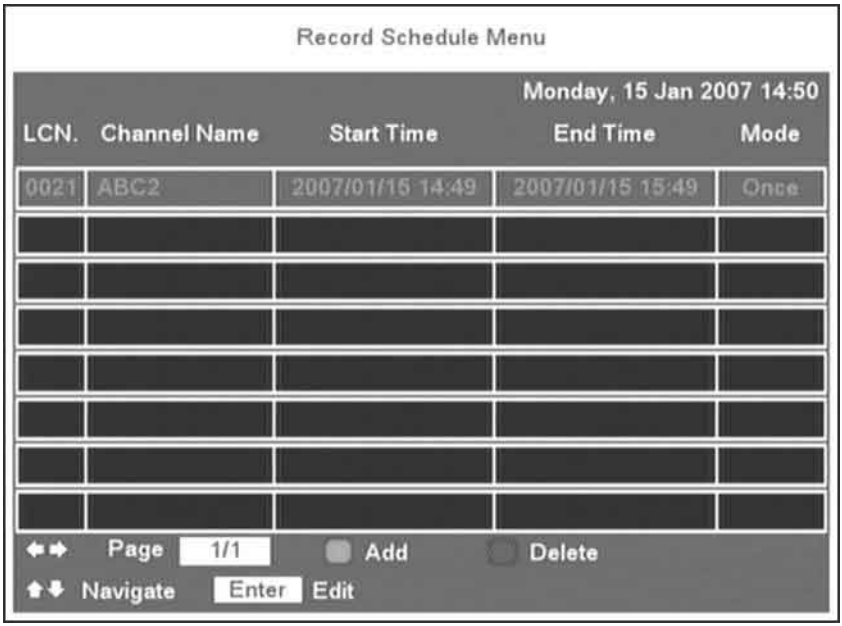
- One-touch recording (OTR)
- Scheduled Recording

Scheduled Recording allows you to schedule up to 16 programmes in advance with each recording lasting up to 6 hours.

To access the Record Schedule Menu press **MENU** then select “Record Schedule” from the “Channels” menu.

The Record Schedule Menu

The “Schedule Recording Menu” tables the schedule of recording for your favourite TV programmes.



Scheduling a New Recording

From the Record Schedule Menu press the **Green** key to add a new recording schedule.

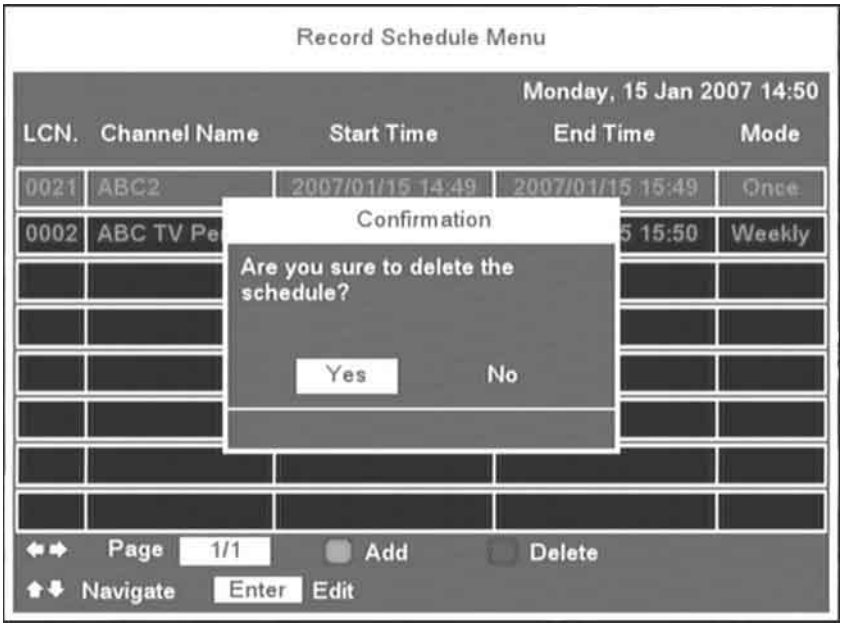
Note: You can also add a new recording schedule from the EPG (see page 18)

Adjust the timer, channel name and record frequency through the pop-up display, and then press **ENTER** to confirm your booking.

The HD8000UPVR will start recording the scheduled programme when the allotted time comes.

Deleting a Recording Schedule

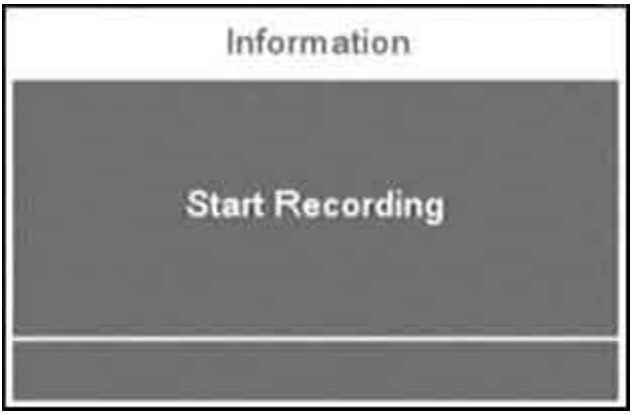
Select the scheduled programme and press the **Red** key;



Select “Yes” to delete the selected schedule.

Starting (Scheduled) Recording

When the scheduled record time comes “Start Recording” displays and recording starts.



Current Record Info

To view the Current Record Info, press MENU then select “Current Record Info” from the “Channels” menu.

Approximate Recording Times

Depending on the content being recorded, the recording times may become shorter than indicated. (The times provided below are an estimate, use only as a guide.)

Recording Mode	Recording Times	Capacity
MPEG2 SD Channel	30 minutes	1GB
MPEG2 HD Channel	15 minutes	1GB
MPEG2 SD Channel	1 hour	2GB
MPEG2 HD Channel	1 hour	4GB
MPEG2 SD Channel	2 hours	4GB
MPEG2 HD Channel	2 hours	8GB
MPEG2 SD Channel	5 hours	10GB
MPEG2 HD Channel	5 hours	20GB

OTR (One Touch Recording)

OTR is a special feature of the HD8000UPVR, making the recording function easy to use with a single press of **REC** on the remote control.

- Starting OTR Record:
  When you wish to start a recording, while watching TV, just press **REC**. The recording window will momentarily display to indicate recording has started.

- End of Recording:
  A. Press **STOP** on the remote control, or
  B. Recording will automatically stop at the end of the current programme based on the broadcast Now/Next programme information.

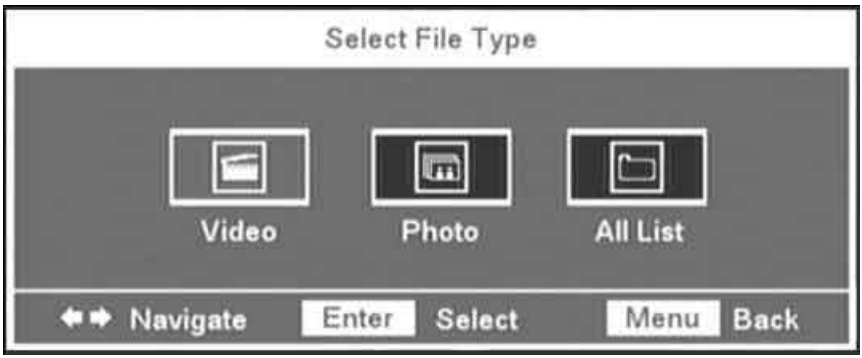
Playback Recorded TV Content

NOTE

The HD8000UPVR can only playback content that has been recorded to the USB Storage Drive.

File Menu

Press FILE to open the “Select File Type” menu.



Select “Video” to open of the “PVR File Management” menu.
Select “All List” to view the file-paths.

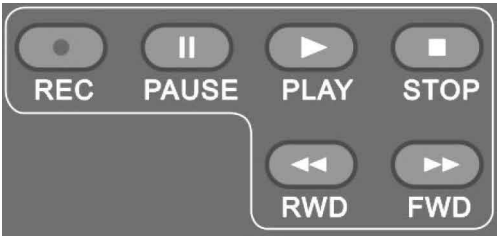
“Photo” option: You can connect a storage drive without formatting to view jpeg (jpg) photos from that storage device. Select “Photos” from the “Select File Type” menu to view photos.

PVR File Management

In “PVR FPreview Menu”, you can playback your preferred recorded programme by simply highlighting the video clip and pressing **ENTER**. If you press **INFO**, you can review the recorded programme’s information.

Playback Display

Playback - Remote Control Keys



Play
Press **PLAY** to begin playback of or restart a recorded programme.

Pause
Press **PAUSE** to pause the recorded programme.

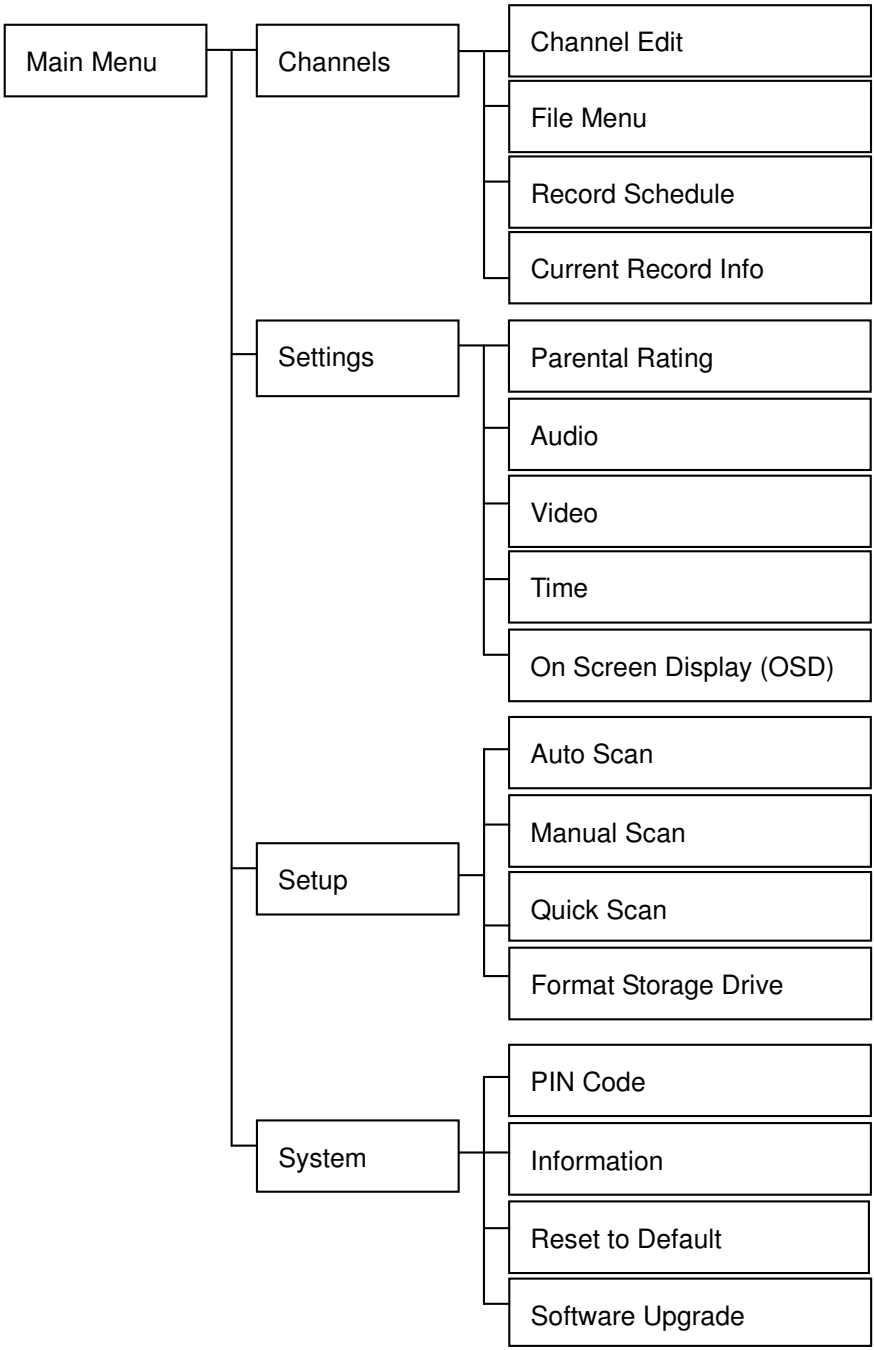
Forward
Press **FWD** repeatedly to forward the recorded programme by 2X, 4X, 8X and up to 16X forward speed.

Rewind (RWD)
Press **RWD** repeatedly to rewind the recorded programme by 2X, 4X, 8X and up to 16X rewind speed.

Stop
Press **STOP** to stop playing the recorded programme, and return to previous page.

Skip Forward and Skip Backward
If the recorded programme is longer than 10 minutes then you can Skip forward or Skip backward in 10 minute steps by selecting the ⏮ or ⏭ options on the playback display and pressing **ENTER**.

Main Menu Map

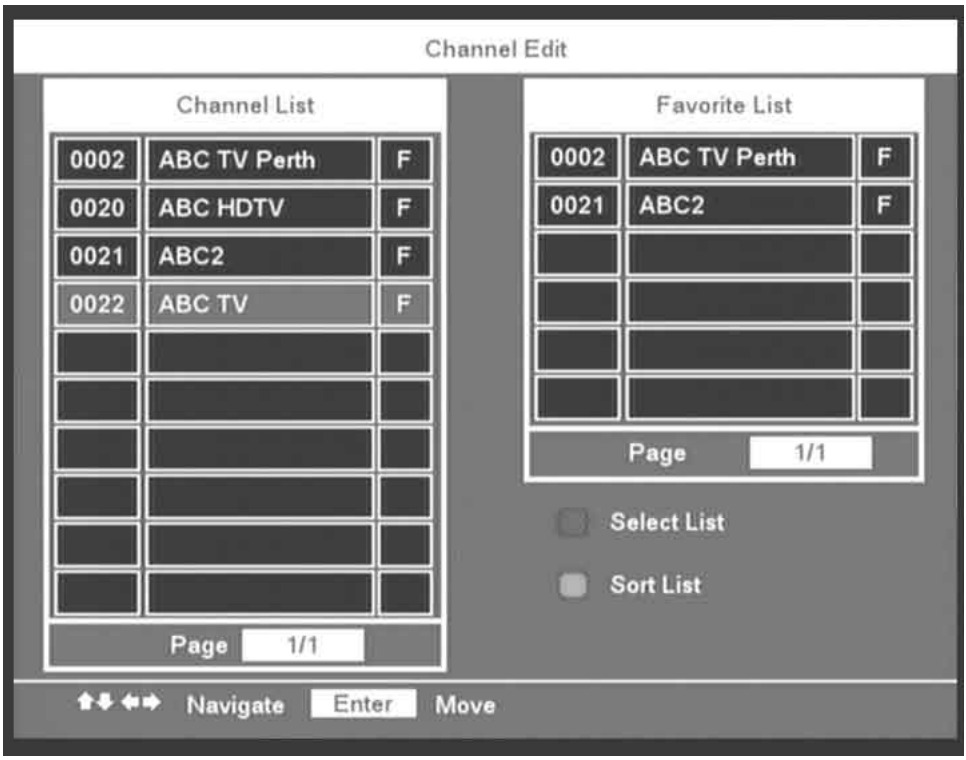


Main Menu

Press MENU to display the Main Menu screen. Use the directional keys ▲, ▼, ◄ and ► to move through the menu and press **ENTER** to select the chosen option.

Channels

Channel Edit:
Channel Edit allows you to manage your favourite channels.



Use the ▲, ▼, ◄ and ► to highlight options and press **ENTER** to assign channels to the Favourite List or remove from the Favourite List.

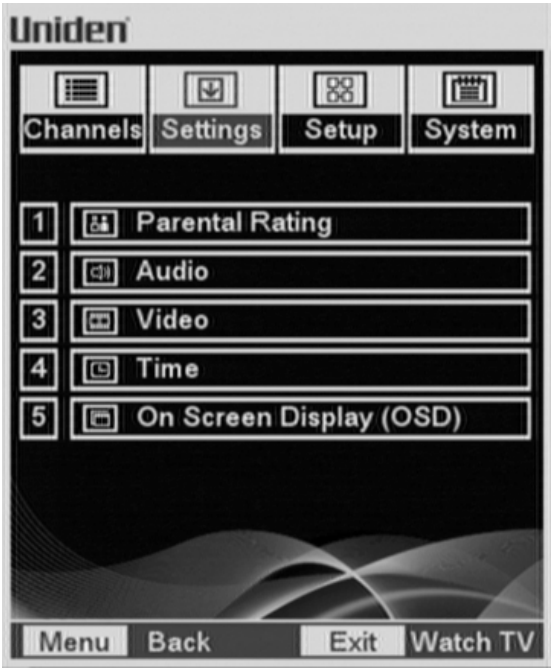
- **Red** key: Change the Channel List between all channels, transponder channels or favourite channels.
- **Green** key: Sort lists alphabetically, by Logical Channel Number (LCN) or by network frequency.

File Menu: - see page 25

Record Schedule: - see page 20

Current Record Info: - see page 23

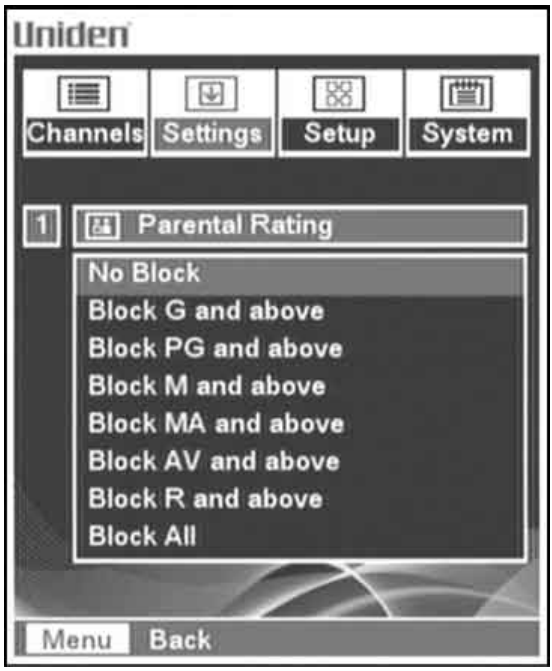
Settings



Parental Rating:
Allows you to set a parental rating for a channel to prevent your children from viewing sensitive channels.

Once you set the parental rating for the particular channel, the parental rating transmitted with the channel will verify if the received rating is higher than the parental lock rating.

A pop-up message will show that the channel is locked. To see the channel, you have to enter the PIN code before viewing the channel.



Audio:
The Audio menu allows you to setup the following formats:

• Audio Language (English only)

• Audio Preference: Allows you to choose between Mpeg and Dolby as preference format for current viewing.

• Default Volume: Adjust the volume to your preference.

Video:
The Video menu allows you to setup the following formats:

• HD Video Format:
PAL/576p/720p/1080i

• Aspect Ratio:
16:9, AFD 16:9 Wide, 4:3 Letter Box, 4:3 Centre Cut, AFD 4:3 Letter Box and AFD 4:3 Centre Cut

• Picture Setup:
Brightness, Contrast, Saturation, Hue, Sharpness and DNR (Digital Noise Reduction)

Time:
The Local Time Setup menu allows you to setup the following local time format:

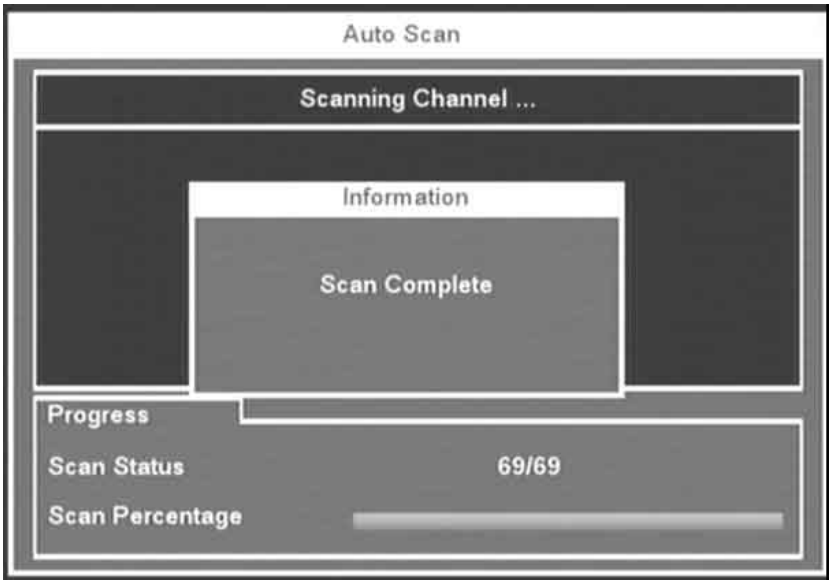
On Screen Display (OSD):
The OSD Setting Menu allows you to adjust the screen display features from the following;

• I-Plate:
The I-Plate is shown every time the channel changes or after pressing INFO. Select to adjust the timeout period.
• Menu Language: (English only)
• Auto Subtitle:
Enabling this setting automatically shows subtitles in programmes if available.
• Hearing Impaired:
Enabling this setting automatically shows sound subtitles for the hearing impaired if available.
• Menu Timeout:
Timeout interval for OSD menus.

Setup

Note: The default PIN code of this receiver is 0000.

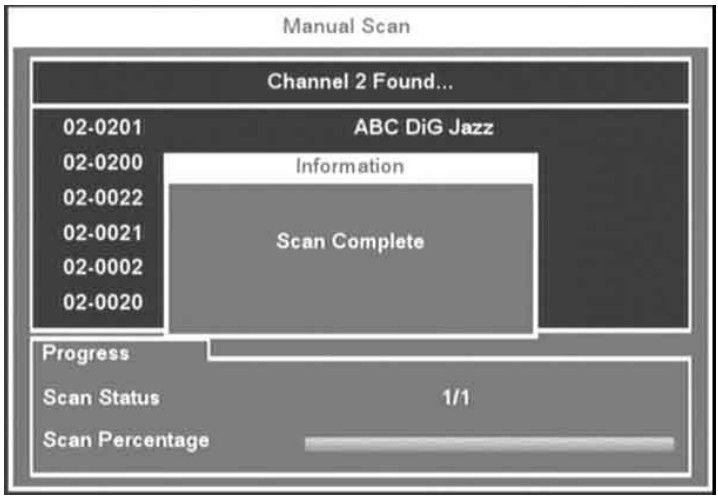
Auto Scan:
On the “Setup” menu, highlight “Auto Scan” and press **ENTER** to start channel search.



Once a digital TV/Radio channel is found, the channel number and the programme name will be displayed.

“Scan Complete” shows after scanning is finished.

Manual Scan:
If you know the frequency of a local broadcaster you can conduct a Manual Scan. Input the Channel No. and Frequency, and select Start Scan to scan a specific channel.



"Scan Complete" shows after scanning is finished.

Note: These parameters vary between different regions. Please refer to the details provided by your local broadcast service.

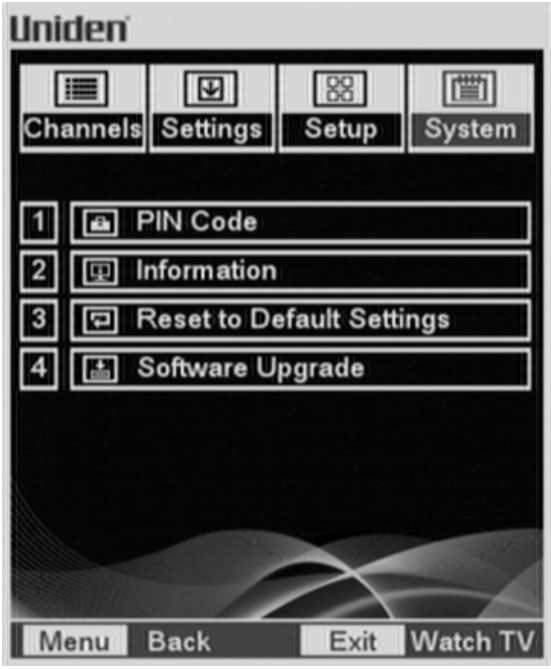
Quick Scan:
Select the region and press **ENTER** to start the channel search.

Once a digital TV/Radio channel is found, the channel number and the programme name will be displayed.

"Scan Complete" shows after scanning is finished.

Format USB Storage Drive: - See page 19.

System



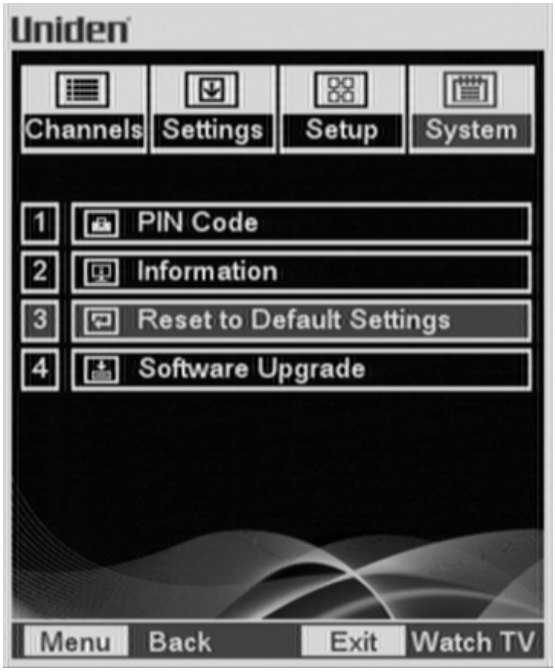
PIN Code:
The PIN Code setting menu allows you to change the 4 digit PIN Code for the HD8000UPVR using the numeric keys (0-9).

- Enter the Current PIN Code.
- Enter the New PIN Code.
- Confirm the new PIN Code.

Note: The default password of this receiver is 0000.

Information:
Select to view the System Information menu showing the current hardware version (H/W) and software version (S/W) of the HD8000UPVR.

Set Defaults:
Select to restore the factory default settings. All current settings and data will be eliminated. The USB Storage Data remains unchanged.

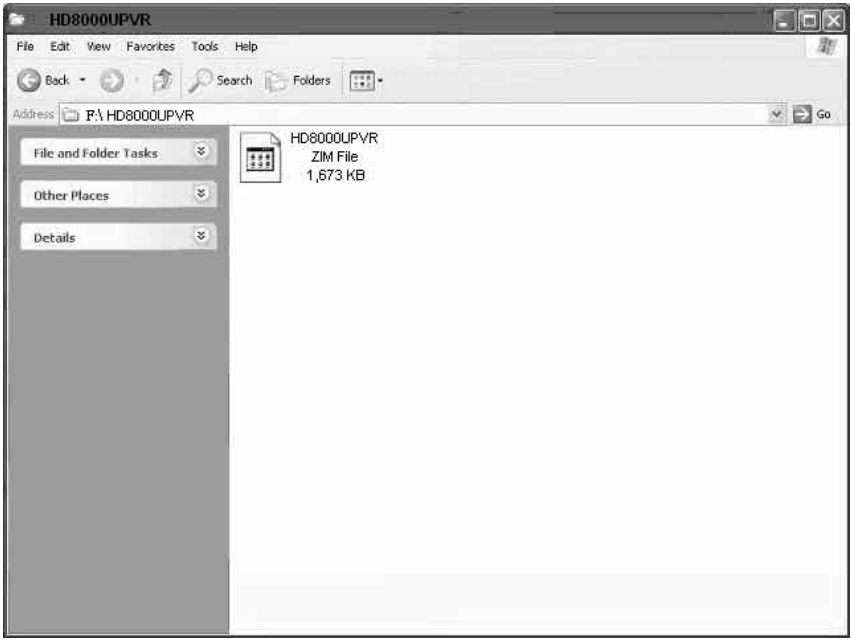


Software Upgrade:
The software for the HD8000UPVR may be upgraded in future. Visit the website; www.uniden.com.au for Australian model or www.uniden.co.nz for Zealand model for latest information.

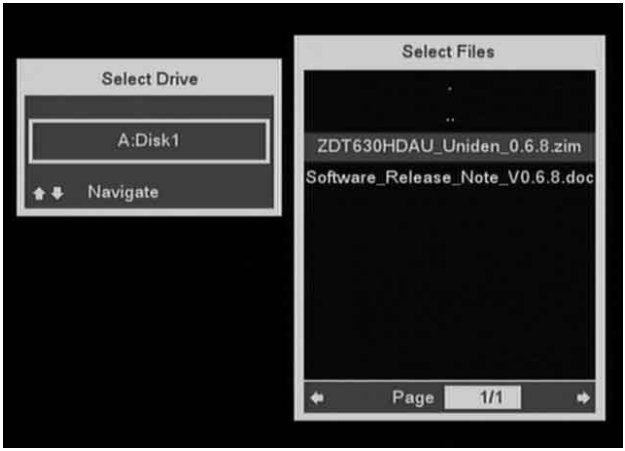
• Copy the software file to the root folder of a USB Storage Drive (Only USB Hard Drives, USB Flash Drives or USB Single SD Card Readers are supported. NOT USB multi-card readers)

• Insert the USB Storage Drive into USB port.

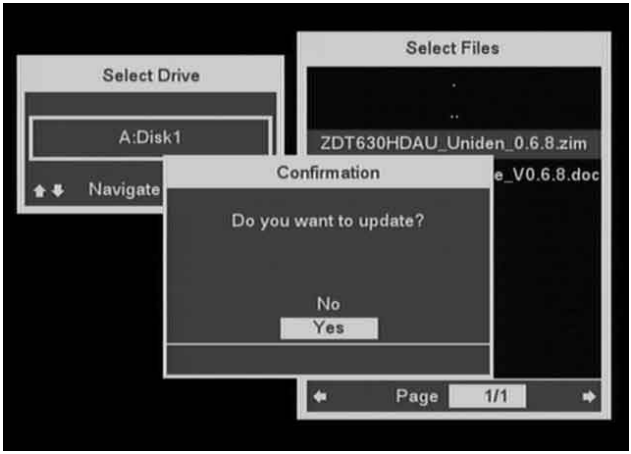
Note: S/W Upgrade: S/W Upgrade is enabled in the Information menu:



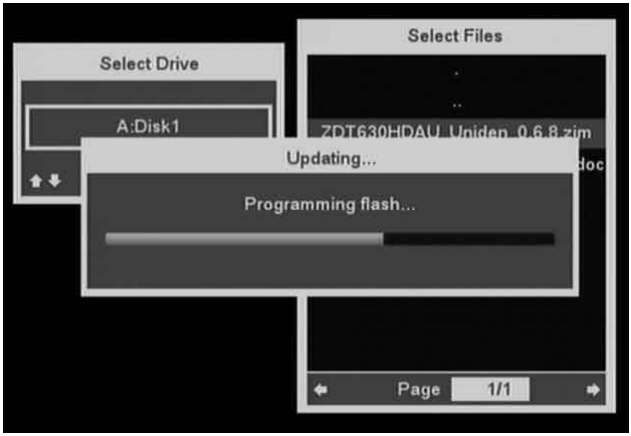
• Select the file from the disk and press **ENTER**.



• Wait until reading of the file is done and when the message “Do you want to update?” appears, select “Yes”.



• Please wait until “Erasing Flash” and “Programming Flash” is completed.



Note: Do not switch off the power or remove the USB Storage Drive during this process.

Troubleshooting

Problem	Solution
(1)The receiver front panel power indicator doesn't light up, and no message appears on the front panel	(a)Check the main lead and make sure the power plug is well plugged into a stable power outlet (b)Press **POWER** button on the front panel to see if the green light (power indicator) is on. (c)Check the digital receiver is in "Standby" mode or not by pressing **STANDBY** on the remote control
(2)Some indication on the front panel but no picture on your TV screen	(a)Press **MENU** on the remote control to call up Auto Scan (b)Make sure the connection between set top box and your TV matches the mode your TV should be set to. (c)Check the brightness level of your TV is high enough (d)Connect first via the composite video output and check if the selected video output matches the output connected to your screen.
(3)Poor picture quality	(a)Check the antenna and make sure it is aligned to the correct direction.
(4)No audio	(a)Check the receiver and your TV's volume are properly set and not in "MUTE" mode. (b)Check the audio connectors are correctly and firmly connected. (c)Make sure the receiver is switched to the correct Audio mode.
(5)No video	(a)Check the receiver if the video connectors are correctly and firmly connected. (b)Try different video formats by pressing **V.FORMAT** on the remote control.
(6)No teletext	(a)Make sure the channel you are watching carries teletext information. (b)Check your TV and make sure it is teletext capable. (c)Check your teletext capable TV is in teletext mode. (d)Select teletext page number, for instance 801.
(7)Cannot lock signal	(a)Make sure your reception systems are correctly installed and connected correctly to the receiver. (b)Check whether the parameters you enter is exactly the center frequency of the wanted channel. Some parameters can be changed by operators. Make sure you have the most updated ones.

***Note:** Please contact your local distributor for any technical problems

• **Weather related Signal problems**

Natural calamities may affect signal reception. If the terrestrial programming is severely affected by bad weather conditions, there are a few basic steps you can take to improve reception:
1. Make sure your antenna is aimed to receive the strongest possible signal.
2. If this does not solve the problem, you may consider installing a larger antenna. This can help to gather more of the signal transmission.
3. If you live in an area subject to frequent snow or freezing rain, you may need to install a deicing system to eliminate the accumulation of unwanted ice, snow or moisture from the surface of your antenna.
4. If the programme reception is adversely affected by heavy winds, you can stabilize the antenna mount with cables.

Glossary

* Aspect Ratio:	It is the ratio of the width of the screen to the height. The two relevant digital TV formats are 16:9 (wide screen) or 4:3 (the traditional screen ratio). 16:9 is ergonomically more suitable for human's eye.
* AFD	Abbreviation for "Active Format Descriptor". A format code which can be used to send information about the "protected" area inside a widescreen picture which may be cut off for viewing on non-widescreen TV displays. Used for Aspect Ratio selections.
* Composite Video:	There are three elements of the video system: First - the "active video" which means the picture to be displayed on the screen and its associated colors. Second - the "sync" decides where to place each pixel on the screen. Third - the "blanking" tells the display when to turn off the electron beam so no retrace across the screen. These three elements combined together is called "composite video" when connecting to a display through connectors.
* DVB:	Abbreviation for "Digital Video Broadcasting". An international organization created in October 1993, whose primary objective is to achieve a common framework for all technical platforms of digital broadcasting systems including DVB-C (cable), DVB-S (satellite), DVB-T (terrestrial), DVB-MC (MMDS), DVB- CS (SMATV).
* EPG:	Abbreviation for "Electronic Programme Guide". It is software that enables viewers to navigate through the large number of channels offered by digital TV broadcaster and select the desired services.
* Frequency:	The property of a signal which is measured in cycles per second(=Hertz).
* Letterbox:	The picture with aspect ratio 16:9 in a 4:3 TV screen with blank lines on top and bottom. It is the means to watch a wide screen TV programme on a 4:3 TV screen.
* OSD:	Abbreviation of "On Screen Display", used in digital set top box. OSD is comprised of a main menu and many submenus with lots of options of functions inside.
* PAL:	Stands for "Phase Alternating Line", the European video standard which has the image format of 4 by 3, 625 horizontal lines, 50 Hz and a total 8 MHz of video channel width.
* Y/Pb/Pr:	Component Video. It is better than S-Video and Composite Video in terms of picture quality.
*HDMI:	High Definition Multimedia Interface transmits High Resolution uncompressed Video and Audio over a single cable between a Digital Receiver and a High Definition Television Display.
*HD:	High Definition Television (HDTV) offers wide-screen 16:9 television with HD broadcasts regularly including enhanced Surround Sound Audio. HDTV broadcasting is increasingly common in two variants: 720p and 1080i. 720p is a progressive system with 1280x720 Pixels in each frame. 1080i is an integrated system where the 1920 Pixels are divided into two fields for more efficient transmission.

Product Specification:

Mechanical:		
	Size (WxHxD)mm	265mm x 40mm x 163mm
	Weight	1.4Kgm
	PCB Construction	4 Layers
Power:		
	Input Voltage	DC 12V /1.5A
	Consumption	18W exclude USB device, Less than 3 W Standby Mode
Front End:		
	Input Frequency	49 ~ 861 MHz / IEC-Female
	Channel Bandwidth	7 / 8MHz
	Standard / Demodulation	DVB-T / COFDM
	Constellation	QPSK, 16QAM, 64QAM
	FFT	2K, 8K
	Guard Interval	1/4, 1/8, 1/16, 1/32
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
	Loop Through Frequency	49 ~ 861 MHz / IEC-male
System:		
	CPU	450 DMIPS
	Flash Memory	8MB
	RAM	128MB DDR
Video:		
	Format	MPEG2 Main Profile@Main Level MPEG2 Main Profile@High Level MPEG4 Main Profile@Level 4.1
	Picture Resolution	720 x 576i, 720 x 576p, 1280 x 720p, 1920 x 1080i
	Video Signal/ Connector	Composite Video: CVBS x 1 Component Video: YPbPr x 1 HDMI x 1
Audio:		
	Formats	MPEG1 Layer I, II,Dolby Digital
	Analog Audio Output	RCA Jack L/R x 2
Recording:		
	Connector	Front USB x 1
SW Upload:		
	Connector	Front USB x 1
On Screen Display (OSD):		
	Number of Colours	16 bit color
Front Panel:		
	Button Key	4 keys (Standby/On, CH+, CH-, Video Format)
	Front Panel Indicator	Red LED (Standby), Green LED (On)
	Remote Control	47 Keys(NEC Code)
General Data:		
	Operating Temperature	5C~ 40C
	Storage Temperature	-40C ~ 65C

One Year Limited Warranty

ONE YEAR LIMITED WARRANTY
UNIDEN HD8000UPVR SET TOP BOX
IMPORTANT: Evidence of original purchase is required for warranty service.
WARRANTOR: Uniden Australia Pty Limited A.B.N. 58 001 865 498
Uniden New Zealand Limited
Warranty only available in original country of purchase.

ELEMENT OF WARRANTY:
Uniden warrants to the original retail owner for the duration of this warranty, its UNIDEN HD8000UPVR SET TOP BOX (herein after referred to as the Product), to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION:
This warranty to the original retail owner only, shall terminate and be of no further effect ONE (1) year after the date of original retail sale.
This warranty will be deemed invalid if the Product is;
(A) Damaged or not maintained as reasonable and necessary,
(B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden,
(C) Improperly installed,
(D) Repaired by someone other than an authorized Uniden Repair Agent for a defect or malfunction covered by this warranty,
(E) Used in conjunction with any equipment or parts or as part of a system not manufactured by Uniden, or
(F) Where the Serial Number label of the product has been removed or damaged beyond recognition.
Warranty only valid in the country of original retail/sale.

PARTS COVERED:
This warranty covers for one (1) year, the Product and included accessories.

STATEMENT OF REMEDY:
In the event that the Product does not conform to this warranty at any time while this warranty is in effect, the warrantor at its discretion will repair the defect or replace the Product and return it to you without charge for parts or service. This warranty does not provide for reimbursement or payment of incidental or consequential damages.
This EXPRESS WARRANTY is in addition to and does not in any way affect your rights under the TRADE PRACTICES ACT 1974 (Cth) (Australia) or the CONSUMER GUARANTEES ACT (New Zealand).

PROCEDURE FOR OBTAINING PERFORMANCE OR WARRANTY:

UNIDEN AUSTRALIA PTY LIMITED
SERVICE DIVISION
345 Princes Highway, Rockdale NSW 2216
Fx(02) 9599 3278
www.uniden.com.au

UNIDEN NEW ZEALAND LIMITED
SERVICE DIVISION
150 Harris Road, East Tamaki, Manukau 2013
Fx(09) 274 4253
www.uniden.co.nz

Customers in other States should ship or deliver the Product freight pre-paid to their nearest Uniden Authorized Repair Centre (Contact Uniden for the nearest Warranty Agent to you).

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